

Application No.: 09/858,035

2

Docket No.: 297912001911

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-40 (canceled).

41. (currently amended) An endoluminal prosthesis, comprising an elongate support wire member joined along an entire length thereof to at least one surface of a strip of polymer cladding, the joined support wire member and polymer cladding being helically wrapped into an open cylindrical structure such that adjacent windings of the polymer cladding have overlapping regions that are bonded to one another.

42. (previously presented) The endoluminal prosthesis according to claim 41, wherein the polymer cladding completely surrounds the support wire member along its length.

43. (previously presented) The endoluminal prosthesis according to claim 41, wherein the polymer cladding comprises a longitudinally extending recess and wherein the support wire member is positioned within said longitudinally extending recess.

44. (previously presented) The endoluminal prosthesis according to claim 41, wherein the polymer cladding comprises a material selected from the group consisting of polytetrafluoroethylene, polyurethane, polyethylene, polypropylene, polyamide, polyimide, polyester, polyfluoroethylenes, silicone, fluorinated polyolefin, fluorinated ethylene/propylene copolymer, perfluoroalkoxy fluorocarbon, ethylene/tetrafluoroethylene copolymer, and polyvinylpyrrolidone.

oc-270882

Application No.: 09/858,035

3

Docket No.: 297912001911

45. (previously presented) The endoluminal prosthesis according to claim 41, wherein the support wire member comprises a material selected from the group consisting of shape memory alloys, biocompatible spring steels, biocompatible spring metal alloys, and carbon fibers.

46. (previously presented) The endoluminal prosthesis according to Claim 41, wherein the support wire member comprises a shape memory alloy with a pre-programmed austenite dimensional state.

47-48. (canceled).

49. (previously presented) The endoluminal prosthesis according to Claim 41, wherein the support wire member is in the form of a planar ribbon.

50. (previously presented) The endoluminal prosthesis according to Claim 41, wherein the polymer cladding has a quadrilateral cross-sectional configuration.

51. (previously presented) The endoluminal prosthesis according to Claim 50, wherein the wire member has a quadrilateral cross-sectional configuration.

52. (previously presented) The endoluminal prosthesis according to Claim 41, wherein the wire member has a circular cross-sectional configuration.

53. (previously presented) The endoluminal prosthesis according to Claim 52, wherein the polymer cladding has a circular cross-sectional configuration.

54. (previously presented) The endoluminal prosthesis according to Claim 52, wherein the polymer cladding has a triangular cross-sectional configuration.

oc-270882

Application No.: 09/858,035

4

Docket No.: 297912001911

55. (previously presented) The endoluminal prosthesis according to Claim 54, wherein the polymer cladding in cross-section further comprises a hemispherical recess.

56. (previously presented) The endoluminal prosthesis according to Claim 52, wherein the polymer cladding in cross-section has a main body portion with a circular cross-sectional configuration and at least one projection extending radially outward therefrom.

oc-270882